Fusion3

EDGE 3D Printer
F200 3D Printer

ADVANCED:
UPDATING THE INTERNAL SD CARD

Revision 6/27/2025

UPDATING THE EDGE & F200 INTERNAL SD CARD

How to update the EDGE & F200 internal SD card and when you may need to do this.

WHEN TO DO THIS

Occasionally we may send out firmware or software updates for EDGE & F200 that cannot be installed like normal updates. These unusual updates must be applied in a different way that involves updating the internal SD card directly. This module will walk you through how to do this.

NOTE: These steps DO NOT APPLY for firmware updates. Please see separate documentation for that procedure.

REQUIREMENTS

- You must have administrative access to your computer, so you can install new software.
- You should be comfortable using applications such as the Raspberry Pi Imaging tool.
- You will need some way to put a microSD card in your computer. Either a micro-to-fullsize adapter or a microSD reader, or microSD to USB adapter.

What if I Can't Install the Imaging Tool?

We understand that not everyone has administrative access to their computers and this may not be possible for all users. We will make these updates available pre-installed on SD cards for a nominal cost through our online store. More information will be provided on a case-by-case basis from Fusion3.

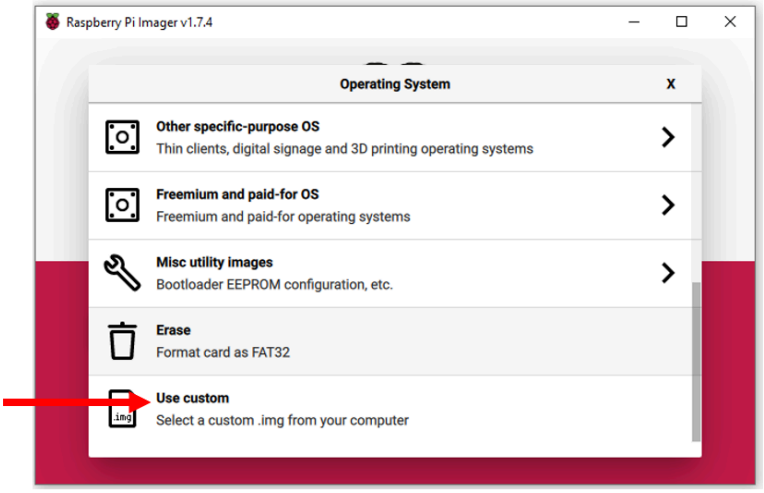
PROCEDURE

1. Remove the internal SD card. Instructions for removing the card for EDGE are HERE and F200 HERE.
2. Install the microSD card into your PC using the adapter.
3. Windows will pop up a window telling you it needs to format the disk in order to use it. Click "close" or "ignore" to as many of these as you get.
4. Download the Raspberry Pi Imager and install it.

5. Download the SD image from Fusion3. A link will be provided separately from these instructions. This will be in the format of a .zip file. A full image will be 1-2GB in size.

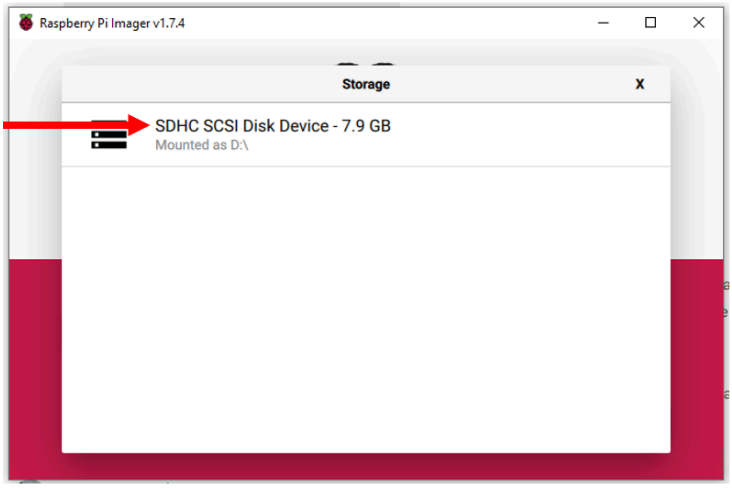
6. Run the Raspberry Pi Imager.

7. Click the "*Operating System*" button. In the "*Operating system type*" menu, scroll down and select "**Use Custom**".


Raspberry Pi Imager v1.7.4
Operating System
Other specific-purpose OS
Thin clients, digital signage and 3D printing operating systems
Freemium and paid-for OS
Freemium and paid-for operating systems
Misc utility images
Bootloader EEPROM configuration, etc.
Erase
Format card as FAT32
Use custom
Select a custom .img from your computer

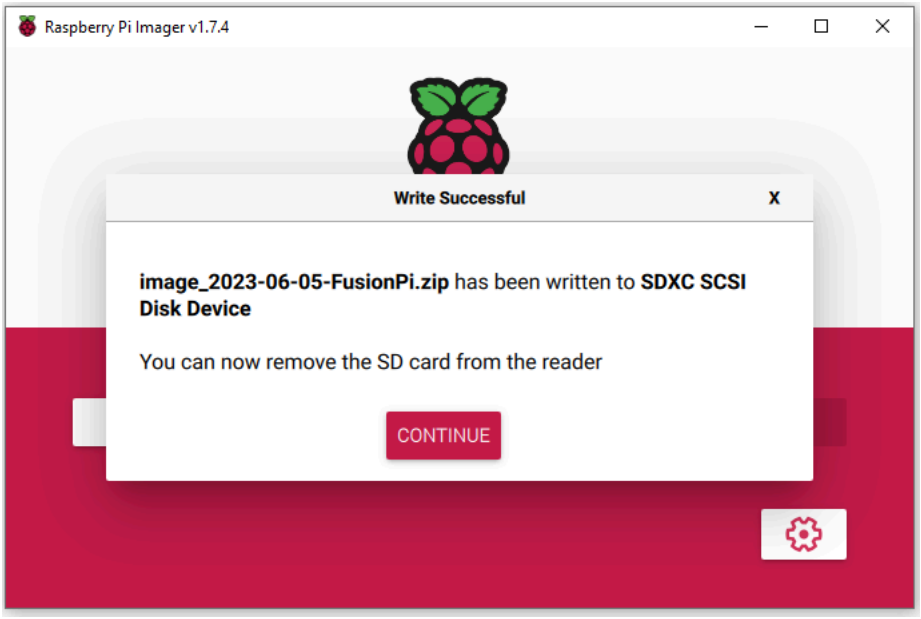
8. Click "*Choose Storage*". If you only have the microSD card and no other external storage attached to your PC, there will only be one entry in the list. Select it.

    a. If you have multiple external storage devices attached to your PC, **make sure you select the right one**. The next step is going to overwrite all contents on the storage device.



9. Click "*Write*" and click "Yes" to confirm you want to proceed.

10. The tool will write the image to the card, then verify the image. When it's done, it will tell you it's safe to remove the card.


Raspberry Pi Imager v1.7.4
Write Successful
X
image_2023-06-05-FusionPi.zip has been written to SDXC SCSI Disk Device
You can now remove the SD card from the reader
CONTINUE

11. Windows will (again) throw warnings about the card being unusable. Ignore them.
12. Remove the card from your PC and reinstall it back into the printer by following the instructions for EDGE HERE and F200 HERE.
13. Power the printer on and make sure it boots fully.
14. (Some updates, not all) Go to *Utilities* > *Console* > and type "**M997 S0**" and press SEND or ENTER. This will update the control board's firmware.
15. Check your *Utilities* > *Info* screen against information provided from Fusion3 to confirm everything updated successfully.